010266088 **Image available**
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Rubber compsn. for pneumatic tyre treads with high wear resistance - comprises rubber compsn. contg. natural rubber, styrene butadiene copolymer, and epoxidised natural rubber, blended with silica

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JP 7090123	A	19950404	JP 93233755	A	19930920	199522	B
JP 3363539	B2	20030108	JP 93233755	A	19930920	200306	

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Abstract (Basic): JP 7090123 A

Tyre tread rubber compsn. (I) comprises 100 pts. wt. rubber compsn. contg. (A) 20-50 pts. wt. of natural rubber (NR); (B) 20-40 pts. wt. of a styrene butadiene copolymer which has a vinyl content in the butadiene part of 35-80 wt.% and a styrene content of 10-40 wt.%, and (C) 20-40 pts. wt. of an epoxidised natural rubber having an epoxidation degree of 10-60 wt.% blended with 30-70 pts. wt. of silica.

Component (B) is. e.g. a modified SBR(B-1) which has a vinyl content of 37.3% and a styrene content of 23.3% and is modified with N-methyl-pyrrolidone. Component (C) is e.g. ENR(RTM: epoxidation degree of 25 wt.%)(C-1). The silica is e.g. Nippsil VN3(RTM).

USE/ADVANTAGE - (I) is used for automobile tyre treads. (I) has high resistance to wear, rolling, and wet skid.

In an example, rubber compsn. comprising 25 pts. wt. of NR, 35 pts.

wt. of B-1, 40 pts. wt. of C-1, 25 pts. wt. of Nippsil VN3, 25 pts. wt. of carbon black and 3 pts. wt. of a silane coupling agent was press-vulcanized to give a test piece. The test piece had an 100 % modulus of 41, a tensile strength of 284 kg/sq.cm, a tan delta of 0.142 at 60 deg.C, a wet skid of 93.7 at room temp. and a Lanbone (sic) wear factor of 105 at 25 %.

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Title Terms: RUBBER; COMPOSITION; PNEUMATIC; TYRE; TREAD; HIGH; WEAR; RESISTANCE; COMPRISE; RUBBER; COMPOSITION; CONTAIN; NATURAL; RUBBER; STYRENE; BUTADIENE; COPOLYMER; EPOXIDATION; NATURAL; RUBBER; BLEND; SILICA

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